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标题: Phase retrieval of THz radiation using set of 2D spatial intensity measurements with different wavelengths

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摘要: Using the infrared matrix of pyroelectric or other photodetectors along with THz band pass filters with pulsed or CW sources one can record the 2D intensity distribution of THz radiation with a high degree of monochromatization. This allows one to use various approaches to solving the phase problem which were developed for the visible frequencies. In this contribution we present the results of the numerical investigation of the wave-front reconstruction using THz radiation at several wavelengths and taking the intensity distribution at various distances.

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